

FIGURE 1A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. bovis	-----gcggcgctgcttaacacatgcaagtcg	
M. chelonae	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. farcinogen	-----cgaacgctcgcgggcgctgcttaacacatgcaagtcg	
M. fortuitum	-----ggcggcgctgcttaacacatgcaagtcg	
M. gordonae	-----ggcggcgctgcttaacacatgcaagtcg	
M. heckeshornense	-----tgatcctggctcaggacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. intercellulare	----- <u>ttaacacatgcaagtcg</u>	
M. kansasii	-----gcggcgctgcttaacacatgcaagtcg	
M. kubicae	-----gtgcttaacacatgcaagtcg	
M. lentiflavum	-----ggcggcgctgcttaacacatgcaagtcg	
M. mucogenicum	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. parafinum	----- <u>cgtgcttaacacatgcaagtcg</u>	
M. simiae	-----ggcggcgctgcttaacacatgcaagtcg	
M. szulgai	-----ggcggcgctgcttaacacatgcaagtcg	
M. tuberculosis	-----ggcggcgctgcttaacacatgcaagtcg	

FIGURE 1B

M. abscessus	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	111
M. avium	aacgggaaaggcctcttcggaggtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacgggaaaggctctcttcggagatactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatc	
M. farcinogen	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. fortuitum	aacgggaaaggcccttcgggtactcgagtggcgaacgggtgagtaaacacgtgggtgatctg	
M. gordonae	aacggtaaggcccttcgggntacacgagtggcgaacgggtgagtaaacacgtgggtaatct	
M. heckeshornense	aacgggaaaggcccgcttcgggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtg	
M. intercellulare	aacgggaaagnccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggcaatc	
M. kansaii	aacgggaaaggctctcttcggagacactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacgggaaaggcctcttcggaggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacgggaaaggcccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtgatct	
M. parafinum	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtnggaat	
M. simiae	aacgggaaaggccccttcgggggtactcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacgggaaagnccccttcgggntactcgagtggcgaacgggtgagtaaacacgtgggtaatc	
M. tuberculosis	aacgggaaaggctctcttcggagatactcgagtggcgaacgggtgagtaaacacgtgggtgat	

FIGURE 1C

<i>M. abscessus</i>	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac 	171
<i>M. avium</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag 	
<i>M. bovis</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg 	
<i>M. chelonae</i>	tgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacacac 	
<i>M. farcinogen</i>	gccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcgct 	
<i>M. fortuitum</i>	ccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgcactt 	
<i>M. gordonae</i>	gccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacaggac 	
<i>M. heckeshornense</i>	acctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgcg 	
<i>M. intercellulare</i>	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctttagg 	
<i>M. kansaii</i>	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg 	
<i>M. kubicae</i>	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag 	
<i>M. lentoflavum</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg 	
<i>M. mucogenicum</i>	gccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcgct 	
<i>M. parafinum</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg 	
<i>M. simiae</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg 	
<i>M. szulgai</i>	tgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgagg 	
<i>M. tuberculosis</i>	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg 	

FIGURE 1D

M. abscessus	ttcatggtgagtgggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	231
M. avium	acgcatgtcttctggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. bovis	atgcatgtcttgtggtngaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	
M. chelonae	ttcatggtgagtgggtgcaaagcttttgcggtgtgggatgagcccgcggcctatcagcttg	
M. farcinogen	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. fortuitum	cctggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgtt	
M. gordonae	acatgtcctgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. heckeshornense	ccatgcatgtggtgtggtggaaagcggtgtggtagtgtgtgggatgggcccgcggcctat	
M. intercellulare	cgcatgtctttaggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. kansaii	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. kubicae	atgcatgtcttatggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. lentoflavum	gcgcatgccttttgggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. mucogenicum	tcatggtgtgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttgt	
M. parafinum	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. simiae	gcgcatgccttgtggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagctt	
M. szulgai	cgcatgccttgggtggaaagcttttgcggtgtgggatgggcccgcggcctatcagcttg	
M. tuberculosis	atgcatgtcttctggtggaaagcgcttttagcggtgtgggatgagcccgcggcctatcagc	

FIGURE 1E

<i>M. abscessus</i>	Ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	291
<i>M. avium</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. bovis</i>	ttggttggtggggtnacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	
<i>M. chelonae</i>	ttggtggggtaatggcccaccaaggcgacgacgggtagccggcctgagaggggtgaccggc	
<i>M. farcinogen</i>	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcc	
<i>M. fortuitum</i>	ggttggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcca	
<i>M. gordonae</i>	tggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggcc	
<i>M. heckeshornense</i>	cagcttggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggt	
<i>M. intercellulare</i>	ttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
<i>M. kansaii</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. kubicae</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. lentoflavum</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. mucogenicum</i>	tggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtgaccggcc	
<i>M. parafinum</i>	ggttggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. simiae</i>	ggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccgg	
<i>M. szulgai</i>	ttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtccggc	
<i>M. tuberculosis</i>	ttggttggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgtcc	

M. abscessus	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgca 	351
M. avium	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc 	
M. bovis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatatt 	
M. chelonae	cacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgca 	
M. farcinogen	acactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcac 	
M. fortuitum	cactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcaca 	
M. gordonae	acactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgcac 	
M. heckeshornense	gtccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaa 	
M. intercellulare	cacactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgca 	
M. kansaii	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. kubicae	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. lentoflavum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc 	
M. mucogenicum	acactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgcac 	
M. parafinum	ccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatattgc	
M. simiae	ccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaatattgc 	
M. szulgai	cacactgggactgagatacggcccagactcntacgggaggcagcagtggggaatattgca 	
M. tuberculosis	ggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaatatt	

M. abscessus	caatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggttgtaa 	411
M. avium	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. bovis	gcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttg 	
M. chelonae	caatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggttgtaa 	
M. farcinogen	aatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggttgtaa 	
M. fortuitum	atgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggttgtaaac 	
M. gordonae	aatgggcgaaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgtaa 	
M. heckeshornense	tattgcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgg 	
M. intercellulare	caatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgtaa 	
M. kansaii	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. kubicae	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. lentoflavum	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. mucogenicum	aatgggcgcaagcctgatgcagcgacgccgcgtgagggatgacggccttcgggttgtaa 	
M. parafinum	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. simiae	acaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgta 	
M. szulgai	caatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttgtaa 	
M. tuberculosis	gcacaatgggcgcaagcctgatgcagcgacgccgcgtgggggatgacggccttcgggttg 	

FIGURE 1H

[illegible]

M. abscessus	tacgtgccagcagccgcggttaatacgtagggtccgagcgttggtccggaattactgggcgt 	531
M. avium	agcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccgg 	
M. bovis	gaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtcc 	
M. chelonae	tacgtgccagcagccgcggttaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. farcinogen	acgtgccagcagccgcggttaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. fortuitum	cgtgccagcagccgcggttaatacgtagggtccgagcgttggtccggaattactgggcgt 	
M. gordonae	caccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttggtccggaa 	
M. heckeshornense	agaagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcaagcgtt 	
M. intercellulare	gcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccgga 	
M. kansaii	agcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttggtccgg 	
M. kubicae	ctacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccggaattactgggcg 	
M. lentoflavum	ctacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccggaattactgggcg 	
M. mucogenicum	acgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccggaattactgggcgt 	
M. parafinum	accggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccggaat 	
M. simiae	ctacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtcnggaattactgggcg 	
M. szulgai	gcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtccgga 	
M. tuberculosis	gaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttggtcc 	

M. abscessus	aagagctcgtaggtagggtttgtcgcggttggttcgtgaaaactcacagcttaactgtgggcg
M. avium	aattactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. bovis	ggaattactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacg
M. chelonae	aaagagctcgtaggtagggtttgtcgcggttggttcgtgaaaactcacagcttaactgtgggcg
M. farcinogen	aagagctcgtaggtagggtttgtcgcggttggttcgtgaaaactcacagcttaactgtgggcg
M. fortuitum	agagctcgtaggtagggtttgtcgcggttggttcgtgaaaactcacagcttaactgtgggcg
M. gordonae	ttactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. heckeshornense	gtccggaattactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtggaatgc
M. intercellulare	attactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. kansaii	aattactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. kubicae	taaagagctcgtaggtagggtttgtcgcggttggttcgtgaaaaccgggggcttaacctcggc
M. lentoflavum	taaagagctcgtaggtagggtttgtcgcggttggttcgtgaaaaccgggggcttaacctcggc
M. mucogenicum	aagagctcgtaggtagggtttgtcgcggttggttcgtgaaaactcacagcttaactgtgggcg
M. parafinum	tactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. simiae	taaagagctcgtaggtagggtttgtcgcggttggttcgtgaaaaccgggggcttaacctcggc
M. szulgai	attactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacggc
M. tuberculosis	ggaattactgggcgtaaagagctcgtaggtagggtttgtcgcggttggttcgtgaaatctcacg

[illegible]

FIGURE 1L

M. abscessus	tggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaact	711
M. avium	cctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtct	
M. bovis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtgncgaaggcgggt	
M. chelonae	tggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaact	
M. farcinogen	ggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaactg	
M. fortuitum	gaaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaactga	
M. gordonae	tgggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctct	
M. heckeshornense	ggaattcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggc	
M. intercellulare	ctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctc	
M. kansaii	cctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtct	
M. kubicae	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaac	
M. lentoflavum	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaac	
M. mucogenicum	ggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaactg	
M. parafinum	ggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctg	
M. simiae	gtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctctgggcagtaac	
M. szulgai	ctggtgtagcngtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggtctc	
M. tuberculosis	ttcctggtgtagcgggtggaatgcgagatatcaggaggaacaccggtggcgaaggcgggt	

FIGURE 2A

M. abscessus	----- <u>acatgcaagtcg</u>	51
M. avium	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. bovis	-----gcggcgctgcttaacacatgcaagtcg	
M. chelonae	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. farcinogen	-----cgaacgctcgcgggcgctgcttaacacatgcaagtcg	
M. fortuitum	-----ggcggcgctgcttaacacatgcaagtcg	
M. gordonae	-----ggcggcgctgcttaacacatgcaagtcg	
M. heckeshornense	-----tgatcctggctcaggacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. intercellulare	----- <u>ttaacacatgcaagtng</u>	
M. kansasii	-----gcggcgctgcttaacacatgcaagtcg	
M. kubicae	-----gtgcttaacacatgcaagtcg	
M. lentiflavum	-----ggcggcgctgcttaacacatgcaagtcg	
M. mucogenicum	-----gacgaacgctggcggcgctgcttaacacatgcaagtcg	
M. parafinum	-----cgtgcttaacacatgcaagtcg	
M. simiae	-----ggcggcgctgcttaacacatgcaagtcg	
M. szulgai	-----ggcggcgctgcttaacacatgcaagtcg	
M. tuberculosis	-----ggcggcgctgcttaacacatgcaagtcg	

M. abscessus	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	111
M. avium	aacggaaaggcct-cttcgggaggtact-cgagtggcgaacgggtgagtaaacacgtgggcaat	
M. bovis	aacggaaaggtct-cttcgggagatact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. chelonae	aacgggaaaggcc-cttcgg-ggtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. farcinogen	aacggaaaggcc--cttcggg-gtact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. fortuitum	aacggaaaggcc--cttcggg--tact-cgagtggcgaacgggtgagtaaacacgtgggtgat	
M. gordonae	aacggtaaaggcc--cttcgggn-taca-cgagtggcgaacgggtgagtaaacacgtgggtaat	
M. heckeshornense	aacggaaaggcccgccttcggtgggtgctcgagtggcgaacgggtgagtaaacacgtgggtgac	
M. intercellulare	aacggaaagnccc-cttcg--gggtactcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kansaii	aacggaaaggtct-cttcgggagac-actcgagtggcgaacgggtgagtaaacacgtgggcaat	
M. kubicae	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. lentoflavum	aacggaaaggcct-cttcgggaggt-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. mucogenicum	aacggaaaggcc--cttcgg-ggt-actcgagtggcgaacgggtgagtaaacacgtgggtgat	
M. parafinum	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtnnngcaat	
M. simiae	aacggaaaggccc-cttcgggggt-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. szulgai	aacggaaagnccc-cttcgggn-t-actcgagtggcgaacgggtgagtaaacacgtgggtaat	
M. tuberculosis	aacggaaaggtct-cttcgggagat-actcgagtggcgaacgggtgagtaaacacgtgggtgat	

FIGURE 2C

M. abscessus	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	171
M. avium	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctcaag	
M. bovis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	
M. chelonae	ctgccctgcactctgggataagcctgggaaactgggtctaataccggataggaccacaca	
M. farcinogen	ctgccctgcactttgggataagcctgggaaactgggtctaataccggataggaccacgcg	
M. fortuitum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaatatgaccgcgca	
M. gordonae	ctgccctgcacatcgggataagcctgggaaactgggtctaataccgaataggaccacagg	
M. heckeshornense	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccgccc	
M. intercellulare	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggacctttag	
M. kansaii	ctgccctgcacaccgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. kubicae	ctaccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccatgag	
M. lentoflavum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccttttg	
M. mucogenicum	ctgccctgcactttgggataagcctgggaaactgggtctaataccgaataggaccacgcg	
M. parafinum	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. simiae	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacttg	
M. szulgai	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccccgag	
M. tuberculosis	ctgccctgcacttcgggataagcctgggaaactgggtctaataccggataggaccacggg	

FIGURE 2D

M. abscessus	cttcatggtgagtgggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	231
M. avium	acgcatgtcttctggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. bovis	atgcatgtcttgtggtngaaagcgcttt--agcgtgtgggatgagcccgcggcctatca	
M. chelonae	cttcatggtgagtgggtgcaaagc-tttt---gcggtgtgggatgagcccgcggcctatca	
M. farcinogen	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. fortuitum	cttcctggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. gordonae	acacatgtcctgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. heckeshornense	atgcatgtggtgtggtggaaagcggtgtggtagtgtgtgggatgggcccgcggcctatca	
M. intercellulare	gcgcatgtctttaggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kansaii	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. kubicæ	atgcatgtcttatggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. lentoflavum	gcgcatgccttttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. mucogenicum	cttcatggtgtgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. parafinum	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. simiae	gcgcatgccttgtggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. szulgai	gcgcatgccttgggtggaaagc-tttt---gcggtgtgggatgggcccgcggcctatca	
M. tuberculosis	atgcatgtcttctggtggaaagcgcttt--agcgtgtgggatgagcccgcggcctatca	

FIGURE 2E

M. abscessus	gcttggtggtgggtaaatggccaccaaggcgacgacgggtagccggcctgagaggggtga	291
M. avium	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. bovis	gcttggtggtggggtnacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. chelonae	gcttggtggtggggtaatggccaccaaggcgacgacgggtagccggcctgagaggggtga	
M. farcinogen	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. fortuitum	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. gordonae	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. heckeshornense	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. intercellulare	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kansaii	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. kubicae	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. lentoflavum	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. mucogenicum	gcttggtggtggggtaatggcctaccaaggcgacgacgggtagccggcctgagaggggtga	
M. parafinum	gcttggtggtggggtgatggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. simiae	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. szulgai	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgagaggggtgt	
M. tuberculosis	gcttggtggtggggtgacggcctaccaaggcgacgacgggtagccggcctgaga-ggtgt	

FIGURE 2F

M. abscessus	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	351
M. avium	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. bovis	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. chelonae	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. farcinogen	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. fortuitum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. gordonae	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. heckeshornense	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. intercellulare	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. kansaii	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. kubicae	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. lentoflavum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. mucogenicum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. parafinum	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	
M. simiae	ccggccacactgggactgagatacggcccagactnctacgggaggcagcagtggggaata	
M. szulgai	ccggccacactgggactgagatacggcccagactcntacgggaggcagcagtggggaata	
M. tuberculosis	ccggccacactgggactgagatacggcccagactcctacgggaggcagcagtggggaata	

FIGURE 2G

M. abscessus	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgagggatgacggccttcgggt	411
M. avium	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. bovis	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggcctt-ggggt	
M. chelonae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgagggatgacggccttcgggt	
M. farcinogen	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgagggatgacggccttcgggt	
M. fortuitum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgagggatgacggccttcgggt	
M. gordonae	ttgcacaatgggcgaaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. heckeshornense	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. intercellulare	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. kansaii	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. kubicae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. lentoflavum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. mucogenicum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgagggatgacggccttcgggt	
M. parafinum	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. simiae	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. szulgai	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	
M. tuberculosis	ttgcacaatgggcgcaagcctgatgcagcgacgccgctgggggatgacggccttcgggt	

FIGURE 2H

M. abscessus	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	471
M. avium	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. bovis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. chelonae	tgtaaacctctttcagtagggacgaagcgaaagtgacggtacctacagaagaaggaccgg	
M. farcinogen	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. fortuitum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaaggaccgg	
M. gordonae	tgtaaacctctttcaccatcgacgaaggtccgggttttctcgggctgacggtaggtggag	
M. heckeshornense	tgtaaacctctttcaccatcgacgaagccgcagcttttgttggtgacggtaggtggag	
M. intercellulare	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. kansaii	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	
M. kubicae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. lentoflavum	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. mucogenicum	tgtaaacctctttcaatagggacgaagcgcaagtgacggtacctatagaagaagcaccgg	
M. parafinum	tgtaaacctctttcaccatcgacgaaggctcacttcgtgagttgacggtaggtggagaag	
M. simiae	tgtaaacctctttcagcagggacgaagcgcaagtgacggtacctgcagaagaagcaccgg	
M. szulgai	tgtaaacctctttcaccatcgacgaaggtccgggttttctcggattgacggtaggtggag	
M. tuberculosis	tgtaaacctctttcaccatcgacgaaggtccgggttctctcggattgacggtaggtggag	

FIGURE 2I

M. abscessus	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	531
M. avium	aag---caccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. bovis	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. chelonae	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. farcinogen	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. fortuitum	-----ccaactacgtgccagcagccgcggttaatacgtagggtccgagcgttgt	
M. gordonae	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttgt	
M. heckeshornense	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcaagcgttgt	
M. intercellulare	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. kansaii	aagaagcaccggccaactacgtgccagcagccgcgntaatacgtagggtgcgagcgttgt	
M. kubicae	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. lentoflavum	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. mucogenicum	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. parafinum	aag---caccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. simiae	-----ccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. szulgai	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	
M. tuberculosis	aagaagcaccggccaactacgtgccagcagccgcggttaatacgtagggtgcgagcgttgt	

FIGURE 2J

M. abscessus	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	591
M. avium	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. bovis	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. chelonae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. farcinogen	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. fortuitum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. gordonae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. heckeshornense	ccggaattactgggcgtaaagagctcgtaggcggcttgcgcggtgttcgtggaatgccca	
M. intercellulare	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. kansaii	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. kubicae	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. lentoflavum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. mucogenicum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaactca	
M. parafinum	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. simiae	cnggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaaaccgg	
M. szulgai	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	
M. tuberculosis	ccggaattactgggcgtaaagagctcgtaggtgggttgcgcggtgttcgtgaaatctca	

FIGURE 1K

M. abscessus	tgcggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	651
M. avium	ttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaatt	
M. bovis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	
M. chelonae	tgcggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. farcinogen	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. fortuitum	cgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. gordonae	aactgtgagcgtgcggncgatacgggcagacttgagtactgcaggggagactggaattcc	
M. heckeshornense	cacagcttaactgtggcgctgcgggcgatacgggcaggctggagtctgcaggggagact	
M. intercellulare	taactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattc	
M. kansaii	ttaactgtgagcgtgcggncgatacgggcagactagagtactgcaggggagactggaatt	
M. kubicae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. lentoflavum	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. mucogenicum	gcgggcgatacgggcagactagagtactgcaggggagactggaattcctggtgtagcgg	
M. parafinum	actgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaattcct	
M. simiae	gtgcgggcgatacgggcagactggagtactgcaggggagactggaattcctggtgtagcg	
M. szulgai	taactgtgagcgtgcggncgatacgggcagactggagtactgcaggggagactggaattc	
M. tuberculosis	gcttaactgtgagcgtgcgggcgatacgggcagactagagtactgcaggggagactggaa	

FIGURE 2L

M. abscessus	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	711
M. avium	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. bovis	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtgncgaaggcgg	
M. chelonae	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. farcinogen	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. fortuitum	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. gordonae	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. heckeshornense	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. intercellulare	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. kansaii	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. kubicae	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. lentoflavum	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggt-----	
M. mucogenicum	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. parafinum	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. simiae	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. szulgai	aattcctggtgtagcngtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	
M. tuberculosis	aattcctggtgtagcgggtggaatg <u>cg</u> cagatatcaggaggaacaccggtggcgaaggcgg	

Figure 3 A

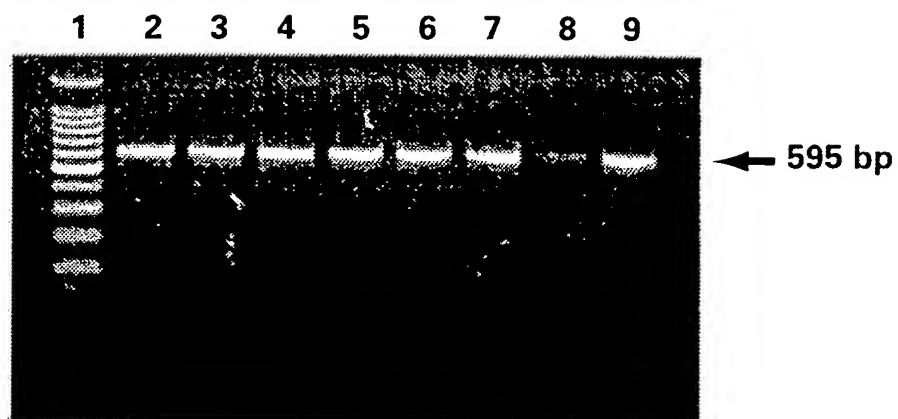


Figure 3 B

